Green-Lock® Membrane Adhesive

Safety Data Sheet

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Revision Date: 08/16/2016 Date of Issue: 08/16/2016 Version: 1.0

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Paste

Product Name: Green-Lock™ Membrane Adhesive

Product Code: 7301

Intended Use of the Product

Adhesive

Name, Address, and Telephone of the Responsible Party

Manufacturer	Supplier	
The Garland Company, Inc.	The Garland Company, Inc.	The Garland Company, Inc.
3800 East 91st Street	3800 East 91st Street	209 Carrier Drive
Cleveland, Ohio 44105-2197	Cleveland, Ohio 44105-2197	Toronto, Ontario M9W 5Y8
T-800-762-8225	T-800-762-8225	T-416-747-7995
F-216-641-0633	F-216-641-0633	F-416-747-1980
www.garlandco.com	www.garlandco.com	

Emergency Telephone Number

Emergency Number: 1-800-262-8200 (CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US)

Eye Irrit. 2	H315
Skin Sens. 1	H317
Eye Irrit, 2A	H319

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US) :

GHS07

Signal Word (GHS-US) : Warning

Hazard Statements (GHS-US) :
H227 – Combustible liquid.
H315 – Causes skin irritation.
H317 – May cause an allergic skin reaction.
H318 – Causes serious eye damage.

Precautionary Statements (GHS-US) :
P210 – Keep away from heat/sparks/open flames/hot surfaces – no smoking.
P261 – Avoid breathing dust/fume/gas/mist/vapors/sprays.
P264 – Wash skin thoroughly after handling.
P272– Contaminated work clothing should not be allowed out of the workplace.
P280 – Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
P332 + P313 - If skin irritation occurs: Get medical advice/attention.
P362 - Take off contaminated clothing and wash before reuse.
P363 - Wash contaminated clothing before reuse.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical advice/attention.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component

Name	Product Identifier	% (w/w)	Classification (GHS-US)

Asphalt	(CAS No) 8052-42-4	5-10	Flam. Liq. 2, H225 Eye Irrit, 2A, H319 Carc.2, H351
Amino Silane	(CAS No) 1760-24-3	1-3	Flam. Liq. 4, H227 Skin irrit. 2, H315 Skin sens. 1, H317 Eye dam. 1 , H318

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Inhalation: An unlikely route of entry. Remove to fresh air. Consult a physician.

Skin Contact: Clean product from affected area with Ethyl Alcohol, then wash with soap and water.

Eye Contact: Flush with large amounts of water for at least 15 minutes. Consult a physician if ill.

Ingestion: An unlikely route of entry. Consult a physician.

Most Important Symptoms and Effects Both Acute and Delayed

General: May be fatal if swallowed and enters airways. Causes serious eye irritation. Causes skin irritation.

Indication of Immediate Medical Attention and Special Treatment Needed

General: If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Water, CO_2, Dry Chemical, Foam.

Unsuitable Extinguishing Media: Do not use direct water stream. May spread fire.

Special Hazards Arising From the Substance or Mixture

Hazardous Combustion Products: Thermal decomposition may product toxic fumes of Carbon Monoxide, Carbon Dioxide, Sulfur oxides and Hydrogen.

Fire and Explosion Hazards: May form flammable/explosive vapor-air mixture.

Advice for Firefighters

Fire Fighting Procedures: Exercise caution when fighting any chemical fire.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Use personal protection recommended in section 8. Avoid eye, skin and clothing contact.

Environmental Precautions

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

Methods and Materials for Containment and Cleaning Up

For Containment: Contain spilled material if possible. Absorb with materials such as: Dirt. Vermiculite. Sand.

Methods for Cleaning Up: Collect spill with absorbent material such as cardboard, allow to cure and place into container approved for waste disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

General Handling: Use personal protection recommended in section 8. Avoid eye, skin and clothing contact.

Conditions for Safe Storage

General: Store in a cool, dry area. This product polymerizes when in contact with moisture.

Shelf Life: 6 Months at a storage temperature of 56 - 77°F (15 - 25°C).

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Asphalt (8052-42-4)		
Mexico	OEL TWA (mg/m^3)	5 mg/m^3
Mexico	OEL STEL (mg/m^3)	10 mg/m^3
USA ACGIH	ACGIH TWA (mg/m^3)	0.5 mg/m^3
USA NOISH	NIOSH REL (ceiling) (mg/m^3)	5 mg/m^3
Alberta	OEL TWA (mg/m^3)	5 mg/m^3

British Columbia	OEL TWA (mg/m^3)	0.5 mg/m^3
Manitoba	OEL TWA (mg/m^3)	0.5 mg/m^3
New Brunswick	OEL TWA (mg/m^3)	5 mg/m^3
Newfoundland & Labrador	OEL TWA (mg/m^3)	0.5 mg/m^3
Nova Scotia	OEL TWA (mg/m^3)	0.5 mg/m^3
Nunavut	OEL STEL (mg/m^3)	10 mg/m^3
Nunavut	OEL TWA (mg/m^3)	5 mg/m^3
Northwest Territories	OEL STEL (mg/m^3)	10 mg/m^3
Northwest Territories	OEL TWA (mg/m^3)	5 mg/m^3
Ontario	OEL TWA (mg/m^3)	0.5 mg/m^3
Prince Edward Island	OEL TWA (mg/m^3)	0.5 mg/m^3
Quebec	VEMP(mg/m^3)	5 mg/m^3
Saskatchewan	OEL STEL (mg/m^3)	1.5 mg/m^3
Saskatchewan	OEL TWA (mg/m^3)	0.5 mg/m^3
Yukon	OEL STEL (mg/m^3)	10 mg/m^3
Yukon	OEL TWA (mg/m^3)	5 mg/m^3

Appropriate Engineering Controls: Use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations. Provide general and/or local exhaust ventilation to control airborne levels below the appropriate guidelines. Exhaust systems should be designed to move the air away from the source of vapor generation and people working at this point.
Personal Protective Equipment: Protective goggles. Gloves.

Hand Protection: Wear impervious gloves such as vinyl to minimize contact with skin.
Eye Protection: Wear safety glasses or goggles to avoid eye contact.
Skin Protection: Wear impervious gloves such as vinyl to minimize contact with skin.
Environmental Exposure Controls: No specific controls are needed.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	:	Black paste
Color	:	Black
Odor	:	Mild mint scent
Odor Threshold	:	Not applicable
pH	:	Not applicable
Melting Point	:	No test data available
Freezing Point	:	No test data available
Boiling Point (760 mm Hg)	:	Not applicable
Flash Point – Closed Cup	:	No test data available
Evaporation Rate (Butyl Acetate = 1)	:	No test data available
Flammability (solid, gas)	:	Not applicable
Flammability Limits in Air	:	Lower: No test data available; Upper: No test data available
Vapor Pressure	:	< 1
Vapor Density (Air = 1)	:	>1
Specific Gravity (H_2O = 1)	:	Not applicable
Solubility in Water (by wt)	:	Insoluble
Explosive Properties	:	Not explosive

SECTION 10: STABILITY AND REACTIVITY

Reactivity: This product polymerizes when in contact with moisture.
Chemical Stability: Stable under recommended storage conditions. See Storage, Section 7.
Possibility of Hazardous Reactions: Will not occur.
Conditions to Avoid: None known.

Incompatible Materials: None known.
Hazardous Decomposition Products: Thermal decomposition may product toxic fumes of CO and/or CO_2.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects – Product

Acute Toxicity: Not classified.
LD50 and LC50 Data: Not available.
Skin Corrosion/Irritation: Not available.
Serious Eye Damage/Irritation: Causes eye irritation.
Respiratory or Skin Sensitization: Causes skin irritation.
Germ Cell Mutagenicity: No data available.
Teratogenicity: No data available.
Carcinogenicity: May cause cancer (inhalation).
Specific Target Organ Toxicity (Repeated Exposure): Not classified.
Reproductive Toxicity: No relevant data found.
Specific Target Organ Toxicity (Single Exposure): Not classified.
Aspiration Hazard: May be fatal if swallowed and enters airways.
Symptoms/Injuries After Inhalation: May be fatal if swallowed and enters airways.

Information on Toxicological Effects – Ingredient(s)

LD50 and LC50 Data:

Asphalt (8052-42-4)	
LD50, Oral Rat	> 5,000 mg/kg
LD50, Dermal Rabbit	> 2,000 mg/kg
IARC Group	2B
National Toxicity Program Status	Twelfth Report – Items under consideration.

Amino Silane (1760-24-3)	
LD50, rat	> 2,000 mg/kg
LD50, Dermal Rabbit	> 2,000 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

No known applicable information.

Persistence and Degradability

No known applicable information.

Mobility in Soil

Mobility in Soil: In the aquatic and terrestrial environment, movement is expected to be limited.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.
Unused and Contaminated Product: Preferred option includes sending to a licensed, permitted: Recycler, Reclaimer, Incinerator or other thermal destruction device. For additional information, refer to: Handling & Storage Information, SDS Section 7; Stability & Reactivity Information, SDS Section 10; Regulatory Information, SDS Section 15.

SECTION 14: TRANSPORT INFORMATION

14.1 In Accordance with DOT

Proper Shipping Name : Tars, liquid – NOT REGULATED NON BULK
Hazard Class : 3
Identification Number : UN1999
Packing Group : III

14.2 In Accordance with IMDG

Proper Shipping Name : Tars, liquid
Hazard Class : 3
Identification Number : UN1999
Packing Group : 3

14.3 In Accordance with IATA

Proper Shipping Name	:	Tars, liquid
Hazard Class	:	3
Identification Number	:	UN1999
Packing Group	:	3

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

OSHA 29 CFR 1910-1200 – Irritant.

TSCA – All components of this product are listed on TSCA Inventory.

CERCLA Reportable Quantity – Not applicable

SARA Title III:

Section 302 Extremely Hazardous Substances – None

Section 304 – Not applicable.

Section 311/312 – Immediate (acute) health hazard.

Section 313 – None

RCRA – Refer to section 13.

California Proposition 65 Carcinogens: This product does not contain any chemicals known by the state of California to cause cancer.

California Proposition 65 Reproductive Toxins: This product does not contain any chemicals known by the state of California to cause reproductive harm.

Asphalt (8052-42-4)	
Listed on the United States, TSCA (Toxic Substances Control Act)	

Amino Silane (1760-24-3)	
Listed on the United States, TSCA (Toxic Substances Control Act)	
SARA 311/312	Immediate/acute health hazard

Canadian Regulations

WHMIS Classification – D2B

SECTION 16: OTHER INFORMATION

Revision Date	:	08/16/2016
Other Information	:	This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.
Party Responsible for the Preparation of This Document	:	The Garland Company, Inc. 3800 East 91st Street Cleveland, Ohio 44105-2197 T-1800-762-8225 F-216-641-0633

This information is based on our knowledge as of the Revision Date and is intended to describe the product only for the purposes of health, safety and environmental requirements as of the Revision Date. It should not therefore be construed as guaranteeing any specific property of the product nor as providing any warranty, expressed or implied. The user assumes all responsibility, liability, risk of loss, damage, or expense arising out of, or in any way connected with, the handling, storage, use, or disposal of the product.